Proposed I	nj Well	*****	*******************	*****	*****	******	****
Well Name	NBU 23-1	Comp	pany Name Midland Oil Co.	Date Drilled 5/3	1/1924	_ Depth	3032 '
Location	300 ' F N	L & 300	'F <u>W</u> L, <u>NW</u> /4, Sec. <u>14</u> , T	27 N, R 05 E	Status	Shut in oil	
Elevation .		□GL□KB					
Hole Size	Casing Size	<u>Landed</u> <u>Depth</u>	Cement & Additive Data	Top of Cement	If well is How:	TA or P&A Desc	cribe
11	20 "						
	15 1/2 "				1		
и	8 5/8 '	2335 '					
	7 "	2856 '		Man Control			
"	5 1/2 "		2831' to 3002'		1	a livinos	
Formation	s Open To	Wellbore:	Burbank (open hole 3002' to 30	32')			
Well Name	NBU 23-2		any Name Midland Oil Co.				
Location	300 ' F N	L & 980	'F <u>W</u> L, <u>NW</u> /4, Sec. <u>14</u> , T	27 N, R <u>05</u> E	Status	Shut in oil	
Elevation		□GL□KB					
Hole Size	Casing Size	<u>Landed</u> <u>Depth</u>	Cement & Additive Data	Top of Cement	If well is How:	TA or P&A Desc	<u>cribe</u>
"	20 ''	20 '					
"	15 1/2 "	910 '					
11.	8 5/8 "	2340 '	estage -				
11	7 "	2875 '		,			
	5 1/2 "	Liner	fish all liner, dmpd 3 sx cmt @ 2964	1.			
"	5 3/16 "	3034 '	Cmtd w/40 sx reg w/30% Diacel D.				
Formation	s Open To	Wellbore:	Burbank (Open Hole 3034' to 3		300000000000000000000000000000000000000		
Well Name	*************** NBU 23-3	*******	eany Name Midland Oil Co.	*******	********** 1/1924	_Depth	**** 3111 '
Location	300'FN	 -	'FE_L, <u>NW</u> /4, Sec. <u>14</u> , T	1		Oil Producer	
Elevation		GLKB					959
Hole Size	Casing Size	Landed	Cement & Additive Data	Top of	11000	TA or P&A Desc	oribe
<u> </u>	20 "	Depth 20 '		Cement	How:		
11		20 ' 2378 '		- ,	-	•	-
	8 5/8 " 7 "						
 		2867 '	5 07001 00 101				
- 0	5 3/16 "	Liner '	From 2789' to 3043'				
- "					<u> </u>		
	. 0	A/=10-	Dumbouls (O H-L-0040)	1441)			
rormation	s Open To \	vvelibore:	Burbank (Open Hole 3043' to 3	111)			

Proposed I	nj Well ******	*****	******	*****	******	******	******	*****	****
Well Name	NBU 23-4	Comp	any Name <u>M</u>	idland Oil Co.	[Date Drilled 5	/27/1924	Depth	3050 '
Location	300' FN	L & 300	'F <u>E</u> L, <u>N</u>	W /4, Sec. 14	_ , T <u>2</u>	27 N, R <u>05</u> E	Status	Shut in oil	
Elevation		_GL_KB							
Hole Size	Casing Size	<u>Landed</u> <u>Depth</u>	Ceme	nt & Additive D	ata	Top of Cement	If well is The How:	ΓA or P&A De	scribe
11	20 "	20 '					1		
311	15 1/2 "	918 '					1		
11	12 1/2 "	1245 '					1	-1-1-1-1-1	
'n	8 5/8 "	2330 '					t		
	7 "	2825 '							
п	5 1/2 "	-	2800' to 302	27'					
Formation	1 500.00 GANGART A			en hole 3027	' to 305	50')			
Well Name	NBU 23-5	Comp	oany Name <u>M</u>	idland Oil Co.		Date Drilled 6	/7/1924	_Depth	3073 '
Location	980' F <u>N</u>	L & 300	' F <u>W</u> L, <u>N</u>	W /4, Sec. 14	_ , T <u>2</u>	27 N, R <u>05</u> E	Status	P & A'd 10/3	1/62
Elevation		GLKB							
Hole Size	<u>Casing</u> Size	<u>Landed</u> <u>Depth</u>	<u>Ceme</u>	nt & Additive D	<u>ata</u>	Top of Cement	If well is The How:	TA or P&A De	scribe
п	20 "			,				5'. Spot 35 sx reg	
u	15 1/2 "	958 '						: @ 3000', TOC (2" @ 2355' & pld	
ш	10 "	1666 '					POOH 7" (@ 2340' & pld	106 jts. Part &
· ·	8 5/8 "	2355 '						8" @ 2325' to 17 OH 10 3/4" rec	
	7 "	2658 '					hole to surf.		1101 1110000
	5 3/16 "	2918 '	fobd 111 5' of	liner.68' left in hol	lo 2 ov s	mt	7		
11	5 1/2 "	liner '		@ 2988'.	ie. 2 \$x (ATTIC	1		
Formation	s Open To	Wellbore:	None			**-			
******	*****	*****	*****	******	******	******	******	*****	*****
Well Name	NBU 23-6	Com	oany Name <u>M</u>	idland Oil Co.		Date Drilled 5	/28/1924	_Depth	3084 '
Location	980' FN	L & 980	' F <u>E</u> L, <u>N</u>	W /4, Sec. <u>14</u>	_ , T <u>2</u>	27 N, R <u>05</u> E	Status	P & A'd 9/3/	62
Elevation		GLKB	le:						
<u>Hole</u> Size	Casing Size	<u>Landed</u> <u>Depth</u>	Ceme	ent & Additive D	ata	<u>Top of</u> Cement	If well is The How:	TA or P&A De	escribe
"	20 '	21 '						com w/30% Dia	
u.	10 ''	1680 '						OC @ 2665'. P 0' & pld 113 jts. [
11	8 5/8 "	2340 '					@ 2500'. P	art & POOH 8 5/	8" csg @ 1750
"	7"	2858 '						. Mudded hole to	surf
11	5 1/2 "	liner '	2838' to 306	35'			1		
"	J 1/2	IIIE	2000 10 300				1		
Formation	s Open To	Wellbore:	None	W HANDSHIP					

Proposed I	nj Well	******	******	*****	******	*****	*****	*******	****
Well Name	NBU 23-7	Comp	any Nam	e Midland Oil Co.	Dat	e Drilled 7/1	4/1924	_ Depth	3078 '
Location	980 ' F <u>N</u>	L & 980	'F <u>E</u> L,	NW /4, Sec. 14	, T <u>27</u>	N, R <u>05</u> E	Status	P & A'd 11/2/6	62
Elevation	1173	X GL KB							
<u>Hole</u> <u>Size</u>	Casing Size	<u>Landed</u> <u>Depth</u>	<u>C</u> e	ement & Additive Dat	<u>a</u>	Top of Cement	If well is How:	TA or P&A Des	<u>cribe</u>
0	20 " 16 "	38 ' 968 '					@ 3046	reg w/30% Diace FOC @ 2980'. Par	t & POOH 7"
"	8 5/8 "	2283 '	F-21152-10				@ 2740'. F	0' & pld 123 jts. Dr Part & POOH 8 5/8 Part & POOH 16"	3" @ 2300' &
"	7 '' 5 1/2 ''	2887 '	2862' to	2070'				ded hole to surf.	e o lo a pia
	s Open To \	Wellbore:	None	******		************			
				e Midland Oil Co.		e Drilled <u>5/2</u>	7/1924	_Depth	3032
Location	980 ' F <u>N</u>	L & 300	' F <u>W</u> L,	NW /4, Sec. 14	T <u>27</u>	N, R <u>05</u> E	Status	P & A'd 8/10/6	62
Elevation	1141_	X]GL[]KB							
Hole Size	Casing Size	<u>Landed</u> <u>Depth</u>	<u>C</u> e	ement & Additive Dat	<u>a</u>	Top of Cement	If well is How:	TA or P&A Des	cribe
"	20 '	35 '						reg w/30% Diace	
**	10 "	1475 '						ГОС @ 2960'. Par 5'-2390' & plg 110	
н	8 5/8 '	2346 '	447				sx cmt @	2380'. Part & POC	H 8 5/8" csg
n	7 '	2806 '					1580-1490' surf.	' & pld 71 jts. Mu	dded hole to
71	5 1/2 "	liner '	2781' to	3032'			1		
Formation	s Open To \								
			None				et.		
******	******			********					
Well Name	NBU 23-9	Comp	any Nam	e Midland Oil Co.	Dat	e Drilled <u>6/5</u>	/1924	_Depth	3042 '
Location	980 ' F <u>N</u>	L & 300	'F <u>E</u> L,	NW /4, Sec. 14	, T <u>27</u>	N, R <u>05</u> E	Status	Shut in oil	
Elevation	1133	X]GLKB							
Hole Size	Casing Size	<u>Landed</u> <u>Depth</u>	<u>C</u> e	ement & Additive Dat	<u>a</u>	Top of Cement	If well is How:	TA or P&A Des	<u>cribe</u>
"	20 "	18 '		3 N. W.W.			1		
"	15 1/2 "	892 '					,		
*11	8 5/8 "	2303 '					,		
"	7 "	2850 '					,	****	
,,	5 1/2 "	liner '	2779' to	2975'			7		
71	11	1			7.3	***************************************	,		
Formation	s Open To \	Wellbore:	Burbank	(open hole 3005' to	3042')		1		

Proposed II	nj vveii	*****	**********	*****	********
Well Name	NBU 23-10	Comp	any Name Midland Oil Co. Da	te Drilled 6/11	1/1924 Depth 3100 '
Location	910' F <u>S</u>	L & 980	'F <u>W</u> L, <u>NW</u> /4, Sec. <u>14</u> , T <u>27</u>	N, R <u>05</u> E	Status Shut in oil
Elevation .		_GLKB			
Hole Size	Casing Size	<u>Landed</u> <u>Depth</u>	Cement & Additive Data	Top of Cement	If well is TA or P&A Describe How:
"	20 '	40 '	wom 24 E 44 E 472 aar @ 2002 Cost w/0E av	,	
"	15 1/2 '	956 '	ran 215.11' 5 1/2" csg @ 3062'. Cmt w/65 sx w/20% Diacel D & 2% CC.		
"	8 5/8 "	2405 '		,	2011
"	7 ''	2915 '	C. L. T. (0) 1	,	
	5 1/2	liner	fsh 5 1/2" liner, recovered 152', 153' left in hole. Dmpd 2.5 sx cmt @2984'.		12000
"	5 3/16 '	3048 '		31	
Formation	s Open To V	Vellbore:	Burbank (open hole 3048' to 3100')	j	
vveii ivame	NBU 23-11	_ Comp	any Name Midland Oil Co. Date	te Drilled 6/16	6/1924 Depth 3104 '
Location	980'FS	L & 980	FE L, <u>NW</u> /4, Sec. <u>14</u> , T <u>27</u>	N, R <u>05</u> E	Status Shut in oil
Elevation	1206	X]GL[]KB			
<u>Hole</u> <u>Size</u>	Casing Size	<u>Landed</u> <u>Depth</u>	Cement & Additive Data	Top of Cement	If well is TA or P&A Describe How:
"	20 '	15.5 '			
"	15 1/2 "	976 '		,	
"	8 5/8 '	2401 '	ran 208.06' 5 1/2" csg @ 3074. cmtd w/65		
"	7 '	2922 '	sx w/20% Diacel D & 2% CC.	,	
"	5 1/2 '	liner '	fshd 202' 5 1/2" liner. 2.5 sx cmt @ 2955'	1	
Formation	s Open To V	Vellbore:	Burbank (open hole 3074' to 3104'))	
	*****		**********	******	
Well Name	NBU 23-12	Comp	any Name Midland Oil Co. Dat	te Drilled 6/3/	1924 Depth 3157 '
Location	1695 ' F <u>N</u>	L & 300	FEL, NW /4, Sec. 14, T 27	N, R <u>05</u> E	Status Shut in oil
Elevation	1248 [X]GL[]KB			
Hole Size	Casing Size	<u>Landed</u> <u>Depth</u>	Cement & Additive Data	Top of Cement	If well is TA or P&A Describe How:
"	20 '	39 '			
"	15 1/2 "	1040 '		,	
11	8 5/8 '	2420 '	ran 244.46' 5 1/2" csg @ 3112'. Cmt w/65 sx		
"	7 ''	2915 '	w/20% Diacel D & 2% CC. CO cmt to btm.		
"	5 1/2 "	liner '	fshd all of 5 1/2" liner @ 2965'. 3 sx cmt @	9	
11	71	1	2955'.	3	
Formation	s Open To V	Vellbore:	Burbank (open hole 3112' to 3157'))	

Proposed In	j Well	******	******	******	******	*******
Well Name 1	NBU 23-13	Comp	pany Name Midland Oil Co.	Dat	e Drilled 6/1:	3/1924 Depth 3103 '
Location _	300 ' F <u>S</u>	L & 300	'F <u>E</u> L, <u>NW</u> /4, Sec. <u>14</u>	, T <u>27</u>	N, R <u>05</u> E	Status P & A'd 2/18/63
Elevation _	1306	X]GL∏KB				
<u>Hole</u>	Casing	Landed	Cement & Additive Da	ata	Top of	If well is TA or P&A Describe
<u>Size</u>	Size	<u>Depth</u>			Cement	How:
11	20 " 15 1/2 "	38 ' 967 '				Co to 3103'. Cmtd w/80 sx reg w/30% Diacel D @ 2600'. Part & POOH 7" csg @
п	10 "	1520 '				2525' & pid 114 jts. Part & POOH 8 5/8" csg @ 2340' & pid 109 jts. Part & POOH 10 3/4"
	8 5/8 "	2423 '				1452-1310' & pld 60 jts. Part & POOH 16" 800-635' & pld 32 jts. Mudded hole to surf.
-	7 "	2898 '	and	· ·		800-635 & pid 32 jts. Middled Hole to sun:
	5 1/2 "		2873' to 3053'			
"	4"	325 '	2070 10 0000			*
Formations	Open To \	Wellbore:	None			
******	*****	******				********
Well Name N	NBU 23-14	Comp	pany Name Midland Oil Co.	Dat	e Drilled 6/1/	1924 Depth 3142 '
Location _	300'FS	L & 980	'FEL, <u>NW</u> /4, Sec. <u>14</u>	, T <u>27</u>	N, R <u>05</u> E	Status P & A'd 1/17/63
Elevation _	1236	X]GL[]KB				
Hole	Casing	Landed	Comment & Addition D	and the state of	Top of	If well is TA or P&A Describe
Size	Size	<u>Depth</u>	Cement & Additive Da	<u>ata</u>	Cement	How:
"	20 "	43 '				Spot 75 sx common w/30% Diacel D & 2% CC @ 3092'. TOC @ 2850'. Part & POOH
11	16 "	1003 '				7" @ 2750' & pld 126 jts. Dmpd 10 sx cmt
"	8 5/8 "	2439 '				@ 2650'. Part & POOH 8 5/8" @ 2395' & pld 110 jts. Part & POOH 16" 740-579' &
"	7 "	2907 '				pld 29 jts. Mudded hole to surf.
	5 1/2 "		2882' to 3106'			
Formations	Open to v	/Vellbore:	None			
*****	*****	******		*****	*******	********
Well Name N	NBU 23-15	Comp	any Name Midland Oil Co.	Dat	e Drilled 5/16	6/1924 Depth 3104 '
Location	300'FS	L & 980	'FWL, NW /4, Sec. 14	, T <u>27</u>	N, R <u>05</u> E	Status P & A'd 11/9/62
Elevation _	[GLKB				
Hole_	Casing	Landed_	124 0 21 12 ASSESS 1240		Top of	If well is TA or P&A Describe
Size	Size	Depth	Cement & Additive Da	<u>ata</u>	Cement	How:
ıı	20 "	20 '				Spot 35 sx reg w/30% Diacel D @
11	16 "	120 '				3041'. TOC @ 2700'. Part & POOH 7" csg 2720-2665' & pld 121 jts. Part &
	12 1/2 "	1285 '				POOH 8 5/8" csg 2300-1100' & pld 51
u	10 "	1632 '				jts. Mudded hole to surf
u	8 5/8 "	2371 '		23 5.1		
и	7 "	2830 '				
.11	5 1/2 "	liner '	2905' to 3146']
11	10					4-3000
Formations	Open To \	Wellbore:	None			

********	*******	*****	_ ************************	*******	********
Well Name	NBU 23-16	Comp	pany Name Midland Oil Co. D	ate Drilled 7/1	2/1924 Depth 3015 '
Location	300'FS	L & 316	'F <u>W</u> L, <u>NW</u> /4, Sec. <u>14</u> , T <u>27</u>	7_ N, R <u>05</u> E	Status P & A'd 11/21/62
Elevation	1116	XGL _KB			
Hole Size	Casing Size	<u>Landed</u> Depth	Cement & Additive Data	Top of Cement	If well is TA or P&A Describe How:
"	20 '	78 '	hole filled w/mud to btm of 20" csg, 20"csg	301110111	Part & POOH 5 1/2" csg @ 2700' & pld 121
11	16 "	880 '	POOH, hole filled w/mud fluid.		jts. Part & POOH 7" csg 2650' & pld 120 jts. Dmpd 10 sx cmt @ 2600'. Part & POOH
"	8 5/8 "	2276 '			, 8 5/8" csg @ 2255' & pld 109 jts. Part &
"	7 "	2669 '			POOH 16" csg \$00-500' & pld 26 jts. Mudded hole to surf.
11	5 1/2 "	2860 '		10	1
Formation	s Open To	Wellbore:	None		80
************	NIDI I 00 14/	04	***********	*****	*********
vveli Name	NBU 23-W:	21 Comp	pany Name Phillips Petroleum Co. Da	ate Drilled 10/	/8/1962 Depth 3106 '
Location	890'FS	L & 565	'F <u>W</u> L, <u>NW</u> /4, Sec. <u>14</u> , T <u>27</u>	N, R 05 E	Status Injection well
Elevation	1166	X]GL∏KB			
<u>Hole</u>	Casing	Landed	Cement & Additive Data	Top of	If well is TA or P&A Describe
Size	<u>Size</u>	<u>Depth</u>	Cement & Additive Data	Cement	How:
	8 5/8 ''	113 '	Cmt w/95 sx cmt		
"	4 1/2 "	3066 '	Cmt w/135 sx cmt w/30% Diacel D	1650	,
11					1
"					1
		1			'
Formation:	s Open To \	Wellbore:	Burbank (open hole 3066' to 3106		2004-04-1-7
Well Name	NBU 23-W2	23 Comp	any Name <u>Phillips Petroleum Co.</u> Da		**************************************
_ocation	890 ' F S		'F <u>E</u> L, <u>NW</u> /4, Sec. <u>14</u> , T <u>27</u>		Status Injection well
Elevation	1159	X]GL[]KB			
Hole Size	Casing Size	<u>Landed</u> <u>Depth</u>	Cement & Additive Data	Top of Cement	If well is TA or P&A Describe How:
11	8 5/8 '	121 '	Cmt w/105 sx cmt		1
н	4 1/2 "	3050 '	Cmt w/135 sx cmt w/30% Diacel D		
71	19	ı			
"	.,	ı			1
u	.,	ī			,
11	7.0				,
Formation	S Open To \	Wellbore:	Burbank (open hole 3050- 3088)		

Proposed Ir	ij Well ******	*****	**********	*****	*******
Well Name	NBU 23-W2	25 Comp	any Name Phillips Petroleum Co. Da	te Drilled 12/	3/1962 Depth 3151 '
Location _	370 ' F <u>N</u>	L & 565	F <u>W</u> L, <u>NW</u> /4, Sec. <u>14</u> , T <u>27</u>	N, R <u>05</u> E	Status Injection well
Elevation _	1212	Χ]GL∏KB			
Hole Size	Casing Size	<u>Landed</u> Depth	Cement & Additive Data	Top of Cement	If well is TA or P&A Describe How:
11	8 5/8 "	122 '	Cmt w/105 sx cmt		'
71	4 1/2 "	3106 '	Cmt w/135 sx cmt w/30% Diacel D		1
"	3 1/2 "	3098 '	Cmt w/75 sx cmt w/2% Gel		1
11	71	1			
Formations	s Open To \	Wellbore:	Burbank (Open Hole 3106' - 3151')	
Well Name	*************		any Name Phillips Petroleum Co. Da		8/1962 Depth 3158 '
vveii ivame_	NDU 23-772	ZO Comp	any Name Filmps Fedoleum Co. Da	ite Dilleu 12/	6/1902 Depti1
Location	420 ' F N	L & 1245	'F <u>W</u> L, <u>NW</u> /4, Sec. <u>14</u> , T <u>27</u>	N, R <u>05</u> E	Status P & A'd 10/28/1981
_		wa Dua	2.		
Elevation	1226	X]GL[_KB			
Hole	Casing	Landed		Top of	If well is TA or P&A Describe
Size	Size	Depth	Cement & Additive Data	Cement	How:
"	8 5/8 "	122 '	110 sx cmt		cmtd w/150 sx reg cmt @ 3014'. Part & POOH csg off @ 700'. Filled hole w/mud.
119	4 1/2 "	3126 '	110 sx cmt w/30% Diacel D		Cmtd w/20 sx reg, raise tg to 120' & spot 20
n	II.	3			sx cmt, raise to 30' & spot 10 sx cmt. Cmt to surf. Cap w/ steel plate.
17	. "	1			, to sun. Cap w steel plate.
11	30	91 1	20.22		,
Formation	s Open To	Wellbore:	None		
*****	*****	*****	***********	********	*********
Well Name	NBU 23-W2	27 Comp	eany Name Phillips Petroleum Co. Da	ate Drilled 12	14/1962 Depth 3114 '
Location	420 ' F N	L & 715	'F <u>E</u> L, <u>NW</u> /4, Sec. <u>14</u> , T <u>27</u>	N, R <u>05</u> E	Status P & A'd 02/23/2006
Elevation	1154	X GL KB			
<u>Hole</u>	Casing	Landed	Cement & Additive Data	Top of	If well is TA or P&A Describe
Size	<u>Size</u>	<u>Depth</u>		Cement	How: RIH w/tbg to 2067'. Spotted 200 sks Reg
111	8 5/8 "	118 '	105 sx cmt		cmt.POOH w/same. RIH w/tbg & tag plug
.17	4 1/2 "	3059 '	110 sx cmt w/30% Diacel D		1 @ 2167'. Pumped another 50 sks Reg cmt.
11	11				POOH w/tbg to 1200'. Pumped mid-plug @ 1200' w/50 sks Reg cmt. POOH w/tbg.
**	•				, Parted 4 1/2" csg @ 536'. POOH w/csg.
м	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				RIH w/tbg open ended to 540'. Pumped 225 , sks Reg cmt to surface. Cutoff 8 5/8" csg 3'
					below GL. Then restored location.
"					1
Formation	s Open To	Wellbore:	None		

Proposed I	nj Well	******	**********	*******	*****	******	***
	NBU 23-W2		any Name Phillips Petroleum Co. I	Date Drilled 12/1	9/1962	Depth	3051 '
Location	420 ' F N	L & 75	'FEL, <u>NW</u> /4, Sec. <u>14</u> , T <u>2</u>	27 N, R <u>05</u> E	Status	Injection well	
Elevation	1115	XGL□KΒ					
Hole Size	Casing Size	<u>Landed</u> <u>Depth</u>	Cement & Additive Data	Top of Cement	If well is Ta	A or P&A Descr	ribe
"	8 5/8 "	121 '	Cmt w/105 sx cmt	'			
"	4 1/2 "	3016 '	Cmt w/110 sx cmt w/30% Diacel I	1675 '			
11		1		-			
(C)	. Onan Ta l	Mallhara	Burbank (anan hala 2016 ta 205	1"			
*******	s Open 10	vvelibore:	Burbank (open hole 3016 to 305	1) ************	*****	*****	***
Well Name		Comp	pany Name[Date Drilled		Depth	
			'FL, /4, Sec , T _				
Elevation		GLKB					•
Hole Size	Casing Size	<u>Landed</u> <u>Depth</u>	Cement & Additive Data	Top of Cement	If well is T. How:	A or P&A Descr	ibe
11	H	1		,			
"		,		erio			
n	1000		979				
"				1			25-11
		Mallhana.			1		
Formation	s Open To	vvelibore:					
*****			************				
Well Name		Comp	pany Name[Date Drilled		Depth	,
Location	' F	L &	'FL,/4, Sec, T	N, RE	Status		
Elevation		□GL□KB					
Hole Size	Casing Size	<u>Landed</u> <u>Depth</u>	Cement & Additive Data	Top of Cement	If well is T. How:	A or P&A Desci	ribe_
711	- 1	1					
***		4					
		1					
"		,					
н		,					
= "		<u>'</u>	1770.000.000.000				
Formation	s Open To	vvelibore:	************	*****	********	*******	***

Date:

April 12, 2010

bass & Karlsone allifemA11. Meser Public: Mr Commission Februs famore 29, 2011.

Application For the Operation or Report on Wells

North Burk	ank Unit Tract 31			
Fee Land	ato)		(Amount)	
(Commencement money paid to whom) (D	ate)		127000070000000000	
Well No.: 1A is located 330	Ft. from S line and	330	Ft. from E lin	е
SW/4 Sec 14 27N	05E	Osage Cou	nty, Oklahom	na
(1/4 Sec. & Sec. No.) (Twp)	(Range)			
The elevation of the ground level	above sea level is	1146	Ft.	
Use This Side to Request Authority for Work	Use This Side	To Report	Completed	Work
(Three Copies Required)	(One Copy Requ	ired)	
Notice of Intention To:	Character of Wel	l (oil, gas o	r dry)	
Drill	Subseque	ent Report of:		
Plug		on		
Deepen or plug back □		n Treatment		
Convert		asing		
Pull or alter casing ⊠	18889 - 200 - 0	Back		
Formation Treatment	Plugging.			
Details of Work Drilling applications will state proposed TD & horizons to be tested. Show size & length of casings	Details of	Work & Resu	ilts Obtained	
te be used. Indicate proposed midding, cementing & other work.				
<u>Plugging</u> applications shall set forth reasons for plugging & detailed statement of proposed work <u>Plugging will not commence notil 10 days following approval</u> date unless authority granted for				
earlier commencement				
A \$15.00 plugging fee is also required with each application to plug.	7			
0 Bbls oil 0 Bbls water in 24 hrs				
To reactivate & set up for production in CO2 test area				
Will MIRU POOH w/tbg, rods, & pump. Fish all junk				
from hole if needed. RIH w/bit & scraper to TD. Set				
CIBP at end of casing or liner. Perf & cement csg or				
liner to 700' above end. WOC. Shoot off & POOH w/top	Work commenced	d:		
500' of csg. (or shoot every 50 ft to surface). Install new	Work completed	d::b		
31/2" production casing w/bottom 500 ft chrome lined.		ue on reverse if		
Cement this to surface w/DV tool set @ 600'. WOC.	This block for			only
RIH w/ bit & clean out to CIBP. Run CBL. Will drill		Casing Reco	ord	
CIBP & put on production when needed for CO2 flood.	Size In Hole When Start	ed Amt Recovered	ff Parted	
I understand that this plan of work must receive approval in writing of the Osage Indian Agency before operations			Depth	How
may be commenced.				
Lessee: Chaparral Energy, L.L.C.	A			
			Original TD	
Signature:	Lessee:			
David P. Spencer	By:			
Title: Manager of Regulatory Affairs	<u> </u>			
Title: Manager of Regulatory Affairs	Subscribed and sworn to before me this	sday of	, 2010.	
Address: 701 Cedar Lake Blvd., Oklahoma City, Oklahoma 7311.		8 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1	CHARLE STATE OF THE STATE OF TH	

	Date: April 12, 2010
Application For the Ope	eration or Report on Wells
North Burk	bank Unit Tract 31
Gladys I. McComb	May 20, 1924 \$35.00
(Commencement money paid to whom) (D	Date) (Amount)
Well No.: 2 is located 300	Ft. from S line and 980 Ft. from E line
SW/4 Sec 14 27N	05E Osage County, Oklahoma
(¼ Sec. & Sec. No.) (Twp)	(Range)
The elevation of the ground level	_ above sea level is1142 _ Ft.
Use This Side to Request Authority for Work	Use This Side To Report Completed Work
(Three Copies Required)	(One Copy Required)
Notice of Intention To:	Character of Well (oil, gas or dry)
Drill	Subsequent Report of: Conversion
To reactivate & set up for production in CO2 test area Will MIRU POOH w/tbg, rods, & pump. Fish all junk from hole if needed. RIH w/bit & scraper to TD. Set CIBP at end of casing or liner. Perf & cement csg or liner to 700' above end. WOC. Shoot off & POOH w/top 500' of csg. (or shoot every 50 ft to surface).Install new 3½" production casing w/bottom 500 ft chrome lined. Cement this to surface w/DV tool set @ 600'. WOC. RIH w/ bit & clean out to CIBP. Run CBL. Will drill CIBP & put on production when needed for CO2 flood. I understand that this plan of work must receive approval in writing of the Osage Indian Agency before operations may be commenced. Lessee: Chaparral Energy, L.L.C. Signature: David P. Spencer	Work commenced: Work completed: (Continue on reverse if necessary) This block for plugging information only Casing Record Size ta Hole When Started Anal. Recovered Depth How Depth How Original TD Lessee: By:
Title: Manager of Regulatory Affairs	Subscribed and sworn to before me this day of , 2010.

Address: 701 Cedar Lake Blvd., Oklahoma City, Oklahoma 73114

United States Department of the Interior Osage Indian Agency

Pawhuska, Oklahoma

Date:

April 12, 2010

Application For the Operation or Report on Wells

North Burbank Unit Tract 31 Phillips Pet. Corp. April 7, 1924 \$35.00 (Commencement money paid to whom) (Amount) is located Ft. from N line and Well No.: 2340 1660 Ft. from E line SW/4 Sec 14 27N 05E Osage County, Oklahoma (Range) (1/4 Sec. & Sec. No.) (Twp) The elevation of the ground level above sea level is 1155 Ft. Use This Side to Request Authority for Work Use This Side To Report Completed Work (Three Copies Required) (One Copy Required) **Notice of Intention To:** Character of Well (oil, gas or dry) Drill..... Subsequent Report of: Plug...... Conversion...... Deepen or plug back.. □ Formation Treatment.. Convert...... Altering casing..... □ Pull or alter casing..... ⊠ Plugging Back..... □ Formation Treatment.. Plugging..... **Details of Work & Results Obtained Details of Work** Drilling applications will state proposed TD & horizons to be tested. Show size & length of casines to be used. Indicate proposed mudding, cementing & other work. Plugging applications shall set forth reasons for plugging & detailed statement of proposed work Plugging will not commence until 10 days following approval date unless authority granted for A \$15.00 plugging fee is also required with each application to plug. Bbls oil 0 Bbls water in 24 hrs To reactivate & set up for production in CO2 test area Will MIRU POOH w/tbg, fods, & pump. Fish all junk from hole if needed. RIH w/bit & scraper to TD. Set CIBP at end of casing or liner. Perf & cement csg or liner to 700' above end. WOC. Shoot off & POOH w/top Work commenced: 500' of csg. (or shoot every 50 ft to surface). Install new Work completed: 3½" production casing w/bottom 500 ft chrome lined. (Continue on reverse if necessary) Cement this to surface w/DV tool set @ 600'. WOC. This block for plugging information only RIH w/ bit & clean out to CIBP. Run CBL. Will drill Casing Record CIBP & put on production when needed for CO2 flood. In Bole When Started Amt Recovered If Parted I understand that this plan of work must receive approval in Depth writing of the Osage Indian Agency before operations may be commenced. Lessee: Chaparral Energy, L.L.C. Original TD Signature: Lessee: David P. Spencer By Title: Manager of Regulatory Affairs Subscribed and sworn to before me this _____day of ______, 2010

Address: 701 Cedar Lake Blvd., Oklahoma City, Oklahoma 73114

Application For the Operation or Report on Wells

Date:

April 12, 2010

North Burk	eank Unit Tract 31							
	April 7, 1924	\$35.00						
The second secon	ate)	(Amount)						
		200 54 6 1015						
Well No.: 4 A is located 340	Ft. from S line and 300 Ft. from W line							
SW/4 Sec 14 27N	05E Os	age County, Oklahoma						
(1/4 Sec. & Sec. No.) (Twp)	(Range)							
The elevation of the ground level	above sea level is	Ft.						
Use This Side to Request Authority for Work Use This Side To Report Completed Work								
(Three Copies Required)	(One (Copy Required)						
Notice of Intention To:	Character of Well (oi	l, gas or dry)						
Drill	Subsequent R							
Plug 🗆	Conversion	□						
Deepen or plug back □	Formation Treatment □							
Convert	Altering casing							
Pull or alter casing ⊠	Plugging Back	⟨ □						
Formation Treatment □	Plugging							
Details of Work	Details of Wor	k & Results Obtained						
Drilling applications will state proposed TD & horizons to be rested. Show size & length of casings to be used. Indicate proposed modding, cementing & other work. Plugging applications shall set forth reasons for plugging & detailed statement of proposed work. Plugging will not commence until 10 days following approval date unless authority granted for earlier commencement. A \$15.00 plugging fee is also required with each application to plug.								
0 Bbls oil 0 Bbls water in 24 hrs To reactivate & set up for production in CO2 test area Will MIRU POOH w/tbg, rods, & pump. Fish all junk from hole if needed. RIH w/bit & scraper to TD. Set CIBP at end of casing or liner. Perf & cement csg or								
liner to 700' above end. WOC. Shoot off & POOH w/top	Work commenced:							
500' of csg. (or shoot every 50 ft to surface). Install new	Work completed:							
3½" production casing w/bottom 500 ft chrome lined.		reverse if necessary)						
Cement this to surface w/DV tool set @ 600'. WOC.		agging information only						
RIH w/ bit & clean out to CIBP. Run CBL. Will drill	Cas	sing Record						

Address: 701 Cedar Lake Blvd., Oklahoma City, Oklahoma 73114

CIBP & put on production when needed for CO2 flood.

I understand that this plan of work must receive approval in

Title: Manager of Regulatory Affairs

writing of the Osage Indian Agency before operations

Lessee: Chaparral Energy, L.L.C.

David P. Spencer

may be commenced.

Signature:

If Parted

Depth

In Hole When Started

Subscribed and sworn to before me this ______day of ______, 2010.

Lessee:

By:

Anit Recevered

Date:

April 12, 2010

For	the	Operation	or	Report	on	Wells
	For	For the	For the Operation	For the Operation or	For the Operation or Report	For the Operation or Report on

Phillips Pet. Corp.	rbank Unit Tract 31 April 7, 1924		\$35.00	
(Commencement money paid to whom)	Date)		(Amount)	
Well No.: 6 is located 980	Ft. from N_line and	300	_Ft. from W	line
SW/4 Sec 14 27N	05E	Osage Co	unty, Oklaho	ma
(1/4 Sec. & Sec. No.) (Twp)	(Range)	-		
The elevation of the ground level	_ above sea level is	1181	_Ft.	
Use This Side to Request Authority for Work	Use This Side	To Report	Complete	d Work
(Three Copies Required)	((One Copy Req	uired)	
Notice of Intention To:	Character of Well	(oil, gas	or dry)	
Drill	Subseque	nt Report of	f:	
Plug 🗆	Conversion	n	. 🗆	
Deepen or plug back □	Formation	Treatment.	🗆	
Convert		asing		
Pull or alter casing		3ack		
Formation Treatment	Plugging		. 🗆	
Details of Work Drilling applications will state proposed TD & horizons to be tested. Show size & length of casings to be used. Indicate proposed modding, comenting & other work. Plugging applications shall set forth reasons for plugging & detailed statement of proposed work	Details of	Work & Res	ults Obtained	1
Plagging will not commence until 10 days following approxal date unless authority granted for earlier commencement,				
A \$15.00 plugging fee is also required with each application to plug.				
0 Bbls oil 0 Bbls water in 24 hrs				
To reactivate & set up for production in CO2 test area				
Will MIRU POOH w/tbg, rods, & pump. Fish all junk				
from hole if needed. RIH w/bit.& scraper to TD. Set				
CIBP at end of casing or liner. Perf & cement csq or				
liner to 700' above end. WOC. Shoot off & POOH w/top	Work commenced:			
500' of csg. (or shoot every 50 ft to surface). Install new	Work completed:	:		
3½" production casing w/bottom 500 ft chrome lined.	(Continu	e on reverse if	necessary)	
Cement this to surface w/DV tool set @ 600'. WOC.	This block for	plugging	informatio	n only
RIH w/ bit & clean out to CIBP. Run CBL. Will drill		Casing Rec	ord	
CIBP & put on production when needed for CO2 flood. I understand that this plan of work must receive approval in writing of the Osage Indian Agency before operations	Size In Hole When Started	Anit, Recovered	If Parted Depth	Hew
may be commenced.				
Lessee: Chaparral Energy, L.L.C.				
Signature:	Lagger		Original TD	
David P. Spencer	Lessee:			
Bavia i . Sportool	By:			
Title: Manager of Regulatory Affairs	Subscribed and sworn to before me this	day of	2010	
Address: 701 Cedar Lake Blvd., Oklahoma City, Oklahoma 73114	A 10 (1)	uay 01		

Date:

April 12, 2010

Application For the Operation or	Report	on	Wells
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North Bur Gladys I. Chandler	bank Unit Tract 31 May 20, 1924	\$35.00
	Date)	(Amount)
Well No.: 11 is located 980	_Ft. from N_line and	500 Ft. from E line
SW/4 Sec 14 27N	05E	Osage County, Oklahoma
(¼ Sec. & Sec. No.) (Twp)	(Range)	
The elevation of the ground level	_above sea level is	1137Ft.
Use This Side to Request Authority for Work	Use This Side	To Report Completed Work
(Three Copies Required)	1	One Copy Required)
Notice of Intention To:	Character of Well	l (oil, gas or dry)
Drill	Subseque Conversion Formation Altering ca Plugging I Plugging	ent Report of: on
from hole if needed. RIH w/bit & scraper to TD. Set CIBP at end of casing or liner. Perf & cement csg or liner to 700' above end. WOC. Shoot off & POOH w/top 500' of csg. (or shoot every 50 ft to surface).Install new 3½" production casing w/bottom 500 ft chrome lined. Cement this to surface w/DV tool set @ 600'. WOC. RIH w/ bit & clean out to CIBP. Run CBL. Will drill CIBP & put on production when needed for CO2 flood. I understand that this plan of work must receive approval in writing of the Osage Indian Agency before operations may be commenced.	This block for	plugging information only Casing Record
Signature: David P. Spencer	Lessee:	Original TD
Title: Manager of Regulatory Affairs Address: 701 Cedar Lake Blvd., Oklahoma City, Oklahoma 73114	By: Subscribed and sworn to before me this	day of, 2010.

United States Department of the Interior Osage Indian Agency

Pawhuska, Oklahoma

Date:

April 12, 2010

Application For the Operation or Report on Wells

North Burbank Unit Tract 31

(Commencement money paid to whom) (D	ate)		(Amount)	
Well No.: 15 is located 980	Ft. from N line and	980	Ft. from W I	ine
SW/4 Sec 14 27N	- 05E	Osage Cor	- unty, Oklahor	ma
(1/4 Sec. & Sec. No.) (Twp)	(Range)	_		
The elevation of the ground level	above sea level is	1201	_Ft.	
Use This Side to Request Authority for Work	Use This Side	To Report	Complete	d Work
(Three Copies Required)	(0	One Copy Requ	uired)	
Notice of Intention To:	Character of Well	(oil, gas	or dry)	
Drill	Subseque Conversio Formation Altering ca Plugging E Plugging	int Report of in Treatment. asing Back	- -	1
CIBP at end of casing or liner. Perf & cement csg or liner to 700' above end. WOC. Shoot off & POOH w/top	Work commenced			
500' of csg. (or shoot every 50 ft to surface).Install new	Work completed			
3½" production casing w/bottom 500 ft chrome lined.		ue on reverse i	f necessary)	
Cement this to surface w/DV tool set @ 600'. WOC. RIH w/ bit & clean out to CIBP. Run CBL. Will drill	This block for	plugging Casing Rec		n only
CIBP & put on production when needed for CO2 flood. I understand that this plan of work must receive approval in writing of the Osage Indian Agency before operations	Size In Hole When Starter	d Amt. Recovered	If Paried Depth	How
may be commenced.				
Lessee: Chaparral Energy, L.L.C.			Original TD	
Signature: David P. Spencer	Lessee:			
Title: Manager of Regulatory Affairs	Subscribed and sworn to before me this	day of	, 2010.	
Address: 701 Cedar Lake Blvd., Oklahoma City, Oklahoma 7311	1			

United States Department of the Interior Osage Indian Agency

Pawhuska, Oklahoma

Date:

April 12, 2010

	A	aal	lica	tion	For	the	Operation	or Report	on	Wells
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North Burbank Unit Tract 31 \$35.00 Gladys I. Chandler May 20, 2024 (Date) (Amount) (Commencement money paid to whom) Ft. from N line and 980 Ft. from E line is located 980 SW/4 Sec 14 27N Osage County, Oklahoma (1/4 Sec. & Sec. No.) above sea level is 1158 Ft. The elevation of the ground level Use This Side To Report Completed Work Use This Side to Request Authority for Work (Three Copies Required) (One Copy Required) Character of Well (oil, gas or dry) **Notice of Intention To:** Subsequent Report of: Drill...... Conversion..... Plug..... 🗅 Deepen or plug back.. Formation Treatment.. Altering casing..... Convert..... Pull or alter casing..... ⊠ Plugging Back..... □ Formation Treatment.. Plugging..... □ **Details of Work & Results Obtained Details of Work** Drilling applications will state proposed TD & horizons to be tested. Show size & length of casings to be used. Indicate proposed mudding, cementing & other work. Plugging applications shall set forth reasons for plugging & detailed statement of proposed work Plugging will not commence until 10 days following approval date unless authority granted for earlier commencement A \$15,00 plugging fee is also required with each application to plug. 0 Bbls water in 24 hrs Bbls oil To reactivate & set up for production in CO2 test area Will MIRU POOH w/tbg, rods, & pump. Fish all junk from hole if needed. RIH w/bit & scraper to TD. Set CIBP at end of casing or liner. Perf & cement csg or liner to 700' above end. WOC. Shoot off & POOH w/top Work commenced: 500' of csg. (or shoot every 50 ft to surface). Install new Work completed: 31/2" production casing w/bottom 500 ft chrome lined. (Continue on reverse if necessary) Cement this to surface w/DV tool set @ 600'. WOC. This block for plugging information only RIH w/ bit & clean out to CIBP. Run CBL. Drill out Casing Record BP & put on production w/ceramic coated tog & pump. In Hole When Started Amt Recevered I understand that this plan of work must receive approval in writing of the Osage Indian Agency before operations may be commenced. Lessee: Chaparral Energy, L.L.C. Lessee: Signature: David P. Spencer Title: Manager of Regulatory Affairs Subscribed and sworn to before me this ______day of ______, 2010

Address: 701 Cedar Lake Blvd., Oklahoma City, Oklahoma 73114

*******	nj vveli ********	*******	*****************	*****	*******	*****
Well Name	NBU 31-1	Comp	pany Name Cosden Oil and Gas Cc Dat	e Drilled 5/23	3/1924 Depth	3100 '
Location	2340 ' F N	L & 300	'F <u>E</u> L, <u>SW</u> /4, Sec. <u>14</u> , T <u>27</u>	N, R <u>05</u> E	Status P&A'd 10/25	/1946
Elevation	1123	X]GL∏KB				
Hole Size	Casing Size	<u>Landed</u> <u>Depth</u>	Cement & Additive Data	Top of Cement	If well is TA or P&A De	scribe
U	20 '	15 '		,	Fill hole w/ hvy mud. Spot 2	
"	8 5/8 '	2331 '		,	and POOH w/ 2927* 5 1/2' csg; and 1046' 8 5/8" csg.	
"	7 '	2823 '		1	1025'. Filled hole w/ mud.	
11	5 1/2 '	Liner '	2800' - 2990'	,	1	
11	,	1				
Formation	s Open To	Wellbore:	None			
******	*******	*******	***************	*****	*********	****
Well Name	NBU 31-1A	Comp	pany Name <u>Mid-Continent Petroleu</u> Dat	e Drilled 8/21	1/1946 Depth	3093 '
Location	330 ' F <u>S</u>	L & 330	'FEL, SW /4, Sec. 14, T 27	N, R <u>05</u> E	Status Shut In Oil	
Elevation	1146	X GL ☐ KB				
<u>Hole</u> <u>Size</u>	Casing Size	<u>Landed</u> <u>Depth</u>	Cement & Additive Data	Top of Cement	If well is TA or P&A De How:	scribe
	8 5/8 '	160 '	Cmt w/70 sx reg cmt	1		
"	5 1/2 '	2998 '	Cmt w/100 sx reg. Squeezed holes @	2248 '		
			2020' - 2431' w/ 100 sx reg, 20% DD.			
1	- 81	<u>'</u>				
Formation	s Open To	Wellbore:	Burbank (Open Hole 2998' - 3093')	PBTD @	3090'	
\^!=!! b!====	***********	******	***************	*****	********	*****
vveii Name	NBU 31-2	Comp	pany Name <u>Cosden Oil and Gas Cc</u> Dat	e Drilled 5/20	0/1924 Depth	3043 '
Location	300'FS	L & 980	'F <u>E</u> L, <u>SW</u> /4, Sec. <u>14</u> , T <u>27</u>	N, R <u>05</u> E	Status Shut In Oil	
Elevation	1143	⊠GL∏KB				
<u>Hole</u>	Casing	Landed	Cement & Additive Data	Top of	If well is TA or P&A De	scribe
Size	<u>Size</u>	Depth	Cernent & Additive Data	Cement	How:	
11	10 '	374 '		ı		
н	8 5/8 '	2332 '		,		
	7 '	2814 '				
"	5 1/2 '	Liner '	2758' - 2992'	,		
"	ı	1		,		
n		1		,		
Formation	s Open To	Wellbore:	Burbank (Open Hole 2992' - 3043')			
******	******	******	**************	******	*******	*****

Moll Mana - 41		******	*******************	*****	******	******	***
vveii Name N	IBU 31-3	Comp	pany Name <u>Cosden Oil and Gas Cc</u> Da	ate Drilled 5/19	/1924	Depth	3096 '
Location 2	340 ' F <u>N</u>	L & 1660	'F <u>E</u> L, <u>SW</u> /4, Sec. <u>14</u> , T <u>27</u>	N, R <u>05</u> E	Status	Shut In Oil	
Elevation	1156	X]GL KB					
Hole Size	Casing Size	<u>Landed</u> <u>Depth</u>	Cement & Additive Data	Top of Cement	If well is T	A or P&A Desc	ribe
D ₁	15 1/2 '	932 '		,			
"	10 "	1004 '		,			
"	5/8 '	2342 '		,			
и	7 "	2828 '		,			
и	5 1/2 "	3001 '		,			
Formations	Open To \	Wellbore:	Burbank (Open Hole 3001' - 3096')			
Well Name N			pany Name Cosden Oil and Gas Cc Da				
vvcii ivailic <u>iv</u>	DO 31-4		dany Ivanie Cosden On and Gas CC Da	ite Dilled 4/10	11324	. Беріп	3080 '
Location	300'FS	L & 300	'F <u>W</u> L, <u>SW</u> /4, Sec. <u>14</u> , T <u>27</u>	N, R <u>05</u> E	Status	Collapsed Wel	lbore
Elevation	<u></u>	X]GL KB	33				
<u>Hole</u> (Casing Size	<u>Landed</u> <u>Depth</u>	Cement & Additive Data	Top of Cement	If well is T	A or P&A Desc	ribe
15	15 1/2 "	951 '		1	Unrecove	erable collapse	e of
III	8 5/8 "	2358 '		1	wellbore;	hole mudded	to surf.
	7 "	2860 '					
11	7 ' 5 1/2 '		2840' - 3010'	,			
n	5 1/2 "	Liner '	2840' - 3010'	'			
п	5 1/2 "	Liner '	None	,			
Formations (5 1/2 " " Open To \	Liner ' Wellbore:	None ************************************				
n	5 1/2 " " Open To \	Liner ' Wellbore:	None				
Formations of the North Name N	5 1/2 '' '' Open To \ '' BU 31-4A	Liner ' Wellbore: Comp	None ************************************	te Drilled 6/18	/1924		
Formations of the state of the	5 1/2 '' Open To \ BU 31-4A 340 ' FS	Liner ' Wellbore: Comp	None Pany Name Cosden Oil and Gas Cc Da 'FW L, SW /4, Sec. 14 , T 27	te Drilled 6/18	/1924	Depth	
Formations of the state of the	5 1/2 '' '' Open To \ BU 31-4A 340 ' F S 1169	Liner ' Wellbore: Comp L & 300 X GL KB	None vany Name Cosden Oil and Gas Cc Da 'FW L, SW /4, Sec. 14 , T 27	te Drilled <u>6/18</u> _ N, R <u>05</u> E	/1924 Status	DepthShut In Oil	3080 '
Formations of the state of the	5 1/2 '' Open To \ BU 31-4A 340 ' FS	Liner ' Wellbore: ************************************	None Pany Name Cosden Oil and Gas Cc Da 'FW L, SW /4, Sec. 14 , T 27	te Drilled 6/18	/1924 Status	Depth	3080 '
Formations of the second secon	5 1/2 '' Open To \ BU 31-4A 340 ' F S 1169 Casing	Liner ' Wellbore: Comp L & 300 X GL KB	None vany Name Cosden Oil and Gas Cc Da 'FW L, SW /4, Sec. 14 , T 27	te Drilled <u>6/18</u> _ N, R <u>05</u> E 	/1924 Status If well is T	DepthShut In Oil	3080 '
Formations (*********** Well Name N Location Elevation Hole Size	5 1/2 '' Open To \ BU 31-4A 340 ' F S 1169 Casing Size	Liner ' Wellbore: ******************* L & 300 X GL KB Landed Depth	None vany Name Cosden Oil and Gas Cc Da 'FW L, SW /4, Sec. 14 , T 27	te Drilled <u>6/18</u> _ N, R <u>05</u> E 	/1924 Status If well is T	DepthShut In Oil	3080 '
Formations of the second secon	5 1/2 '' Open To \ BU 31-4A 340 ' F S 1169 Casing Size 15 1/2 ''	Liner ' Wellbore: Comp L & 300 X GL KB Landed Depth 951 '	None vany Name Cosden Oil and Gas Cc Da 'FW L, SW /4, Sec. 14 , T 27	te Drilled <u>6/18</u> _ N, R <u>05</u> E 	/1924 Status If well is T	DepthShut In Oil	3080 '
Formations (*********** Well Name N Location Elevation Hole Size ""	5 1/2 '' Open To \ BU 31-4A 340 ' F S 1169 Casing Size 15 1/2 '' 8 5/8 ''	Liner ' Wellbore: ************************************	None vany Name Cosden Oil and Gas Cc Da 'FW L, SW /4, Sec. 14 , T 27	te Drilled <u>6/18</u> _ N, R <u>05</u> E 	/1924 Status If well is T	DepthShut In Oil	3080 '
Formations of the second secon	5 1/2 '' Open To V BU 31-4A 340 ' F S 1169 Casing Size 15 1/2 '' 8 5/8 '' 7 ''	Liner ' Wellbore: Comp L & 300 X GL KB Landed Depth 951 ' 2358 '	None Doany Name Cosden Oil and Gas Cc Date 'FW L, SW /4, Sec. 14 , T 27 Cement & Additive Data	te Drilled <u>6/18</u> _ N, R <u>05</u> E 	/1924 Status If well is T	DepthShut In Oil	3080 '
Formations of the second secon	5 1/2 '' Open To V BU 31-4A 340 ' F S 1169 Casing Size 15 1/2 '' 8 5/8 '' 7 ''	Liner ' Wellbore: Comp L & 300 X GL KB Landed Depth 951 ' 2358 '	None Doany Name Cosden Oil and Gas Cc Date 'FW L, SW /4, Sec. 14 , T 27 Cement & Additive Data	te Drilled <u>6/18</u> _ N, R <u>05</u> E 	/1924 Status If well is T	DepthShut In Oil	3080 '

Proposed I	nj Well	*****	 *******************	******	******		****
Well Name	NBU 31-5	Com	pany Name Cosden Oil and Gas Cc Da	ate Drilled 6/1	8/1924	_ Depth	3120 '
Location	980'FS	L & 300) 'F <u>W</u> L, <u>SW</u> /4, Sec. <u>14</u> , T <u>27</u>	<u>/</u> N, R <u>05</u> E	Status	P&A'd 1/31/1	962
Elevation	1200	XGL _KB	3				
Hole Size	Casing Size	<u>Landed</u> <u>Depth</u>	Cement & Additive Data	Top of Cement	If well is T How:	TA or P&A Des	<u>scribe</u>
н	8 5/8 "				Spot 45 sx	c cmt w/ 1300# [Diacel "D" @
n	7 "	2902 '			POOH w/ 26	C. TOC @ 300 640' 5 1/2" csg. Pa	art and POOH
"	5 1/2 "	3,055 '			w/ 2629' 7"	csg. Dmp 10 sx	cmt @ 2500'.
11	11	1			WOC. Part a	and POOH w/ 184 le to surf.	43' 8 5/8" csg.
"	11	,			1		
Formation	s Open To \		None	<u> </u>			
*******	*******	*****	*************	********	*******	*******	****
Well Name	NBU 31-6	Comp	pany Name Cosden Oil and Gas Cc Da	ate Drilled 5/19	9/1924	Depth	3100 '
Location	980 ' F N	L & 300) 'F <u>W</u> L, <u>SW</u> /4, Sec. <u>14</u> , T. <u>27</u>	'_ N, R <u>05</u> E	Status	Shut In Oil	
Elevation .	1181	X GL ∏ KB	}				
<u>Hole</u> <u>Size</u>	Casing Size	<u>Landed</u> <u>Depth</u>	Cement & Additive Data	Top of Cement	If well is T How:	TA or P&A Des	scribe
11	15 1/2 "	971 '			1		
U	10	1513 '	162' in hole		1		
U	0 0/6						
v	7 '	2856 '					
11	-5 /12 "	Liner '	2810' - 3037' (Ripped @ 2810')				
Formation	s Open To V				1		
******	*******		Burbank (Openhole 3037' - 3100')				
Well Name	NBU 31-7	Comp	pany Name Cosden Oil and Gas Cc Da	ate Drilled 5/18	8/1924	Depth	3076 '
Location .	300 ' F N	L & 300) F <u>W</u> L, <u>SW</u> /4, Sec. <u>14</u> , T <u>27</u>	N, R <u>05</u> E	Status	P&A'd 8/1/196	62
Elevation _		ХGL∏кв	l				
<u>Hole</u> <u>Size</u>	Casing Size	<u>Landed</u> <u>Depth</u>	Cement & Additive Data	<u>Top of</u> <u>Cėment</u>	If well is T	TA or P&A Des	cribe
11	15 1/2 "	153 '			Spot 30 sx c	cmt 2/ 30% Diacel	
- 0	10 "	768 '				@ 2500'. Fill hole OOH w/ 2386' 5 1	
9	8 5/8 "	2350 '			and POOH v	w/ 2377' 7" csg. S	Spot 10 sx cmt
- 31	7 '	2884 '		,		OC. Part and POCudded hole to surf.	
0	5 1/2 "	3034 '			1 3/0 Cay	laded fible to sur.	i i
	J 1,72	300-1			,		1
Formation	s Open To V	Wellbore:	None		-		
			. 10110				

Elevation 300 FN L & 980 FW L SW /4 Sec. 14 T 27 N R 05 E Status P&A'd 7/25/1962	Proposed Inj Well		
Elevation 1198	Well Name NBU 31-8 Company Name Cosden Oil and Gas Cc Da	te Drilled 5/2	3/1924 Depth 3115 '
Hole Casing Landed Depth Cement & Additive Data Top of If well is TA or P&A Describe How: 15 1/2 970	Location 300'FN L & 980'FW L, SW /4, Sec. 14 , T 27	N, R <u>05</u> E	Status P&A'd 7/25/1962
Size Size Depth Depth Selection Superior	Elevation 1198 X GL KB		
10	V.emeni & Addinve Daia		How:
" 7" 2912 " 5 1/2" 3073 " " 5 1/2" 3073 " " 5 1/2" 3073 " " 5 1/2" 3073 " " 5 1/2" 3073 " " 5 1/2" 3073 " " 5 1/2" 3073 " " 5 1/2" 3073 " " 5 1/2" 3073 " " 5 1/2" 3073 " " 5 1/2" 3073 " " 5 1/2" 3073 " " 5 1/2" 3073 " " 5 1/2" 3073 " " 5 1/2" 3073 " " 5 1/2" 3073 " " 5 1/2" 3073 " " 5 1/2" 3073 " 1 1/2" 1 1	15 1/2 9/0		WOC. Fill hole w/ hvy mud. TOC @ 2594'.
T 7 2912			and POOH w/ 2452' 7" csg. Dmp 10 sx cmt
Solid Soli	7 2912		
Well Name NBU 31-9 Company Name Cosden Oil and Gas Cc Date Drilled 6/3/1924 Depth 3071 ' Location 300 'F N L & 980 'F E L, SW /4, Sec. 14 , T 27 N, R 05 E Status P&A'd 8/2/1962 Elevation 1161 X GL KB Hole Size Size Depth Cement & Additive Data Top of Cement How: " 20 " 42 ! Spot 30 sx cmt will 30% Discel 'D' @ 3040'. " 15 1/2 " 823 ! Spot 30 sx cmt will 30% Discel 'D' @ 3040'. " 10 " 639 ! Part and POOH will 2412 5 1/2" csg. Part " 8 5/8 " 2324 ! Spot 30 sx cmt will 30% Discel 'D' @ 3040'. " 7 2829 ! Sec. 14	5 1/2 30/3		<u>'</u>
Decision Size Depth Cement & Additive Data Top of Cement Spot 30 ex cmt with 30% Diacel Tot @ 3040* Spot 30 ex cmt with 30% Diacel Tot @ 3040* Part and POOH with 2405* of 1275/1962 Size Depth Cement & Additive Data Top of Cement Spot 30 ex cmt with 30% Diacel Tot @ 3040* Part and POOH with 2405* of 127* osg. Dmp 10 ex cmt Part and POOH with 2405* of 127* osg. Dmp 10 ex cmt Part and POOH with 2405* of 127* osg. Dmp 10 ex cmt Part and POOH with 1572* osg. Dmp 10 ex cmt Part and POOH with 1572* osg. Dmp 10 ex cmt Part and POOH with 1572* osg. Dmp 10 ex cmt Part and POOH with 1572* osg. Mud hole to surf. Part and POOH with 1572* osg. Mud hole to surf. Part and POOH with 1572* osg. Mud hole to surf. Part and POOH with 1572* osg. Mud hole to surf. Part and POOH with 1572* osg. Mud hole to surf. Part and POOH with 1572* osg. Mud hole to surf. Part and POOH with 1572* osg. Mud hole to surf. Part and POOH with 1572* osg. Part osg. Part and POOH with 1572* osg. Part osg. Part and POOH with 1572* osg. Part osg. Part osg. Part osg. Part of osg. Osg. Wool. Part and POOH with 1572* osg. Part osg. Part of osg. Osg. Wool. Part and POOH with 1572* osg. Part osg. Part of osg. Osg. Wool. Part and POOH with 1572* osg. Part osg. Part of osg. Osg. Wool. Part and POOH with 1572* osg. Part osg. Part of osg. Osg. Wool. Part and POOH with 1572* osg. Part osg. Part of osg. Osg. Wool. Part and POOH with 1572* osg. Part osg. Part of osg. Osg. Wool. Part and POOH with 1572* osg. Part osg. Part of osg. Osg. Wool. Part and POOH with 1572* osg. Part	**********************		
Hole Casing Size Depth Cement & Additive Data Top of Cement How: Size Size Depth Cement & Additive Data Top of Cement How: Spot 30 ex cmt w/ 30% Diacel "0" @ 3040." Spot 30 ex cmt w/ 30% Diacel "0" @ 3040." WOC. TOC @ 2431". Fill hole w/ hvy mud. Part and POOH w/ 2412" 5 1/2" esp. Part and POOH w/ 1572" 8 5/8" 2324 @ 2400". WOC. Part and POOH w/ 1572" 8 5/8" esg. Mud hole to surf. Size Size	Well Name NBU 31-9 Company Name Cosden Oil and Gas Cc Da	te Drilled 6/3	/1924 Depth 3071
Hole Size Depth Cement & Additive Data Top of Size Depth Cement & Additive Data Top of How:	Location 300'FN L & 980'FE L, SW /4, Sec. 14 , T 27	N, R <u>05</u> E	Status P&A'd 8/2/1962
Size Size Depth Cement & Additive Data Cement How: Spot 30 sx cmt w/ 30% Diacel "D" @ 3040" Spot 30 sx cmt w/ 30% Diacel "D" @ 3040" WOC, TOC @ 2431', Fill hole w/ hvy mud. Pert and POOH w/ 2412' 5 1/2' csg. Part and POOH w/ 2412' 5 1/2' csg. Part and POOH w/ 2405' 7" csg. Dmp 10 sx cmt and POOH w/ 2405' 7" csg. Dmp 10 sx cmt 2400'. WOC, Part and POOH w/ 1572' 8 5/8" csg. Mud hole to surf. Spot 30 sx cmt w/ 30% Diacel "D" @ 3040'. WOC, Part and POOH w/ 1572' 8 S/8" csg. Mud hole to surf. Spot 30 sx cmt w/ 30% Diacel "D" @ 3043'. Spot 30 sx cmt w/ 30% Diacel "D" @ 3003'. Spot 30 sx cmt w/ 30% Dia	Elevation 1161 X GL KB		
15 1/2 823	Lement & Additive Lists	111771	
Part and POOH w/ 2412' 5 1/2" csg. Part and POOH w/ 2412' 5 1/2" csg. Part and POOH w/ 2405' 7" csg. Dmp10 sx cmt @ 2400' WOC. Part and POOH w/ 1572' 8 5/8" csg. Mud hole to surf.	20 42		
8 5/8 2324	15 1/2 823		Part and POOH w/ 2412' 5 1/2" csg. Part
Top of Cement Size Size Depth Cement & Additive Data Top of Cement Size Size Depth Size Size Size Depth Depth Size Size Size Depth Depth Depth Depth Size Size			@ 2400'. WOC. Part and POOH w/ 1572' 8
Formations Open To Wellbore: None			5/8" csg. Mud hole to surf.
None	" 5 1/2 " 3015 '		7
Well Name NBU 31-10	\$5		
Location 2340 FS L & 300 FE L, SW /4, Sec. 14 T 27 N, R 05 E Status P&A'd 7/25/1962	NONE	*****	**********
Hole Casing Landed Size Depth Cement & Additive Data Top of How: Spot 30 sx cmt w/ 30% Diacel "D" @ 3003". Spot 30 sx cmt w/ 30% Diacel "D" @ 3003". WOC. TOC @ 2975'. Fill hole w/ hvy mud. Part and POOH w/ 2656' 5 1/2" csg. Part Top of How: Part and POOH w/ 2656' 5 1/2" csg. Part Part and POOH w/ 2638' 7" csg. Spot 10 sx cmt 2600'. WOC. Part and POOH w/ 1042' 8 S/8" csg. Mudded hole to surf. Soptial system Soptial system	Well Name NBU 31-10 Company Name Cosden Oil and Gas Cc Date	te Drilled 6/2	/1924 Depth3043 '
Hole Size Casing Depth Landed Depth Cement & Additive Data Top of Cement If well is TA or P&A Describe How: " 20 " 33 ' Spot 30 sx cmt w/ 30% Diacel "D" @ 3003'. WOC. TOC @ 2975'. Fill hole w/ hvy mud. Part and POOH w/ 2656' 5 1/2" csg. Part " 7 " 2983 ' and POOH w/ 2638' 7" csg. Spot 10 sx cmt " 5 1/2 " 2986 ' 2986 ' " 5 1/2 " 2986 ' 5/8" csg. Mudded hole to surf.	Location <u>2340</u> 'FS L & 300 'FE L, <u>SW</u> /4, Sec. <u>14</u> , T <u>27</u>	N, R <u>05</u> E	Status P&A'd 7/25/1962
Size Depth Cement & Additive Data How: "20" 33 Spot 30 sx cmt w/ 30% Diacel "D" @ 3003'. WOC. TOC @ 2975'. Fill hole w/ hvy mud. Part and POOH w/ 2656' 5 1/2" csg. Part "7" 2983 and POOH w/ 2638' 7" csg. Spot 10 sx cmt @ 2600'. WOC. Part and POOH w/ 1042' 8 "51/2" 2986 5/8" csg. Mudded hole to surf.	Elevation 1142 XGL KB		
WOC. TOC @ 2975'. Fill hole w/ hvy mud. " 8 5/8" 2310 ' " 7" 2983 ' " 5 1/2" 2986 ' " 5 1/2" 2986 ' " 1 5/8" csg. Mudded hole to surf.	L AMANT X. Additiva Lights		How:
8 5/8 2310	20 33		
@ 2600'. WOC. Part and POOH w/ 1042' 8 " 5 1/2 " 2986 " 5/8" csg. Mudded hole to surf. " " " " " " " " " " " " " " " " " " "	0 0/0 2010		Part and POOH w/ 2656' 5 1/2" csg. Part
	7 2983	P	@ 2600'. WOC. Part and POOH w/ 1042' 8
			1
Formations Open To Wellbore: None	0 0		1
	Formations Open To Wellbore: None		

Proposed Inj Well	*****	******	*****
Well Name NBU 31-11 Company Name Cosden Oil and Gas Co Da	ite Drilled 7/2	7/1 924 Dep	oth305
Location <u>980'FN</u> L & 300'FE L, <u>SW</u> /4, Sec. <u>14</u> , T <u>27</u>	N, R <u>05</u> E	Status Shu	ut In Oil
Elevation 1138 X GL KB			
Hole Casing Landed Size Size Depth Cement & Additive Data	Top of Cement	If well is TA or How:	P&A Describe
" 15 1/2 " 58 ' " 7 " 2314 '		!	
" 5 1/2 " 2869 '		7	
1 1		,	
n i i		,	
Formations Open To Wellbore: Burbank (Open Hole 2869' - 3058)			
Well Name NBU 31-12 Company Name Cosden Oil and Gas Cc Da			
Location 980'FS L & 300'FE L, SW /4, Sec. 14 , T 27			
Elevation 1149 XGL KB			
Hole Casing Landed Size Size Depth Cement & Additive Data	Top of Cement	If well is TA or How:	P&A Describe
" 15 1/2 " 913 '		Fill hole w/ hvy	mud. Spot 35 sx cmt DC @ 2625'. Part a
" 8 5/8 ' 2330 '		POOH w/ 2530' 5	1/2" csg. Part and PO
7 2876 1			Spot 10 sx cmt @ 254 I w/ 1680' 8 5/8" c
" 5 1/2 " 3005 '		Mudded hole to su	
F		4	
es describina describinados de securidades de securidades de securidades de la constante del la constante de la consta	*****	******	*****
Well Name NBU 31-13 Company Name Cosden Oil and Gas CoDa	te Drilled 6/3	/1924 Dep	oth 310
Location 980'FS L & 980'FE L, SW /4, Sec. 14 , T 27	ų.		
Elevation 1154 XGL KB			
Hole Casing Landed Size Size Depth Cement & Additive Data	Top of Cement	If well is TA or How:	P&A Describe
" 20 " 39 '		Fill hole w/ hvy mu	ud. Spot 30 sx cmt 2 85
" 5 1/2 " 920 '			. TOC @ 2392'. Part a 1/2" csg. Part and PO
" 10 " 1641 '		w/ 2233' 7" csg. F	Part and POOH w/ 2006
" 8 5/8 " 2324 '		' csg. Mudded hole	d POOH w/ 1380' 10 3 to surf.
" 7" 2903'		1	
" 5 1/2 " 3036 '		9	
Formations Open To Wellbore: None	00020	2.0	

Proposed I	nj Well	******	_ ******************	******	*********	******
Well Name	NBU 31-14	Com	pany Name Cosden Oil and Gas Cc	Date Drilled 6/14	4/1924 Depth	3140 '
Location	980'FS	L & 980	'F <u>W</u> L, <u>SW</u> /4, Sec. <u>14</u> , T <u>2</u>	7 N, R <u>05</u> E	Status P&A'd 2/6/1	962
Elevation	1201	X GL KE	8			
Hole Size	Casing Size	<u>Landed</u> <u>Depth</u>	Cement & Additive Data	Top of Cement	If well is TA or P&A De	escribe
U	20 "	41 '	PBTD 3127'		Fill hole w/ hvy mud. Spo	
11	15 1/2 "	611 '			1500# Diacel "D" @ 3070'. 2635'. Part and POOH w/ 2	
11	10 "	1683 '			Part and POOH w/ 2518' 7"	csg. Spot 10 sx
11	8 5/8 "	2374 '		9	cmt @ 2500', WOC. Part 1925' 8 5/8" csg. Mudded ho	
и	7 ''	2920 '				
н	5 1/2 "	1		,	1	
	s Open To \	Wellbore:	None		38	
	*******	******	************		********	*****
Well Name	NBU 31-15	Com	pany Name Cosden Oil and Gas Cc	ate Drilled 7/16	5/1924 Depth	3124 '
Location	980 ' F N	L & 980	'F <u>W</u> L, <u>SW</u> /4, Sec. <u>14</u> , T <u>2</u>	7 N, R <u>05</u> E	Status Shut In Oil	
Elevation	1201	X]GL KB	F			
Hole	Casing	Landed	0	Top of	If well is TA or P&A De	escribe
Size	<u>Size</u>	Depth	Cement & Additive Data	Cement	How:	3001100
11	20 "	20 '		1		
0	10 "	1039 '		'		
Ü	8 5/8 "	2337 '		,		
17	7"	2909 '	Squeezed leaks @ 367', & 2228'-2391' w/650 sx reg	,		9
1 "	5 1/2 '	3102 '	Part @ 2837'. From 2837' to 3079' in ho	le '		10.
Formation	s Open To V	Wellbore:	Burbank (Openhole 3102' - 3124'			
*******	****	******	*************	<i>)</i> ********	*********	****
Well Name_	NBU 31-16	Comp	pany Name Cosden Oil and Gas Cc	ate Drilled 6/10	0/1924 Depth	3062 '
Location	980 ' FN	L & 980	'FEL, SW /4, Sec. 14 , T 2	7 N, R <u>05</u> E	Status Oil Produce	<u> </u>
Elevation _	1159	X]GL∏KB				14
<u>Hole</u>	Casing	Landed	Cement & Additive Data	Top of	If well is TA or P&A De	escribe
<u>Size</u>	<u>Size</u>	<u>Depth</u>	Cement & Additive Data	Cement	How:	
0	20 "	20 '		,		
17	8 5/8 '	2331 '				
"	7 ''	2882 '		'		
H	5 1/2 "	3027 '	Part @ 2823'. 2823' - 3003' in hole	,		
	"			1		
#1	"	1		,		
Formations	s Open To V	Vellbore:	Burbank (Open Hole 3027' - 3062	2')	5	

Proposed I	nj Well *********	******	********************	******	**********
Well Name	NBU 31-W	<u>/21</u> Comp	pany Name Phillips Petroleum Com Dat	te Drilled 8/26	6/1961 Depth 3137 '
Location	890'FS	_L & 565	F <u>W</u> L, <u>SW</u> /4, Sec. <u>14</u> , T <u>27</u>	N, R <u>05</u> E	Status P&A'd 6/1/1992
Elevation	1200	XGL _KB			
<u>Hole</u> <u>Size</u>	Casing Size	<u>Landed</u> <u>Depth</u>	Cement & Additive Data	Top of Cement	If well is TA or P&A Describe How:
11	8 5/8 '	118 '	115 sx		Spot 30 sx cmt for btm plug@ @ 2750'.
11	4 1/2 '	3085	134 sx w/ 3750# Diacel "D"		Load hole w/ gel. Spot 55 sx cmt from 1153', WOC. Shot off 360' 4 1/2" csg. Circ
"	1	,		,	cmt from 312' to surf. Cut off 8 5/8" csg 3'
11	1	1		,	below GL. Restore Loc.
11	ī	,		,	1
Formation	s Open To	Wellbore:	None		1
*****	******		***************	******	********
Well Name	NBU 31-W	23 Comp	any Name Phillips Petroleum Co. Dat	e Drilled 8/21	1/1961 Depth 3090 '
Location	890 ' F S	L & 715	'F <u>E</u> L, <u>SW</u> /4, Sec. <u>14</u> , T <u>27</u>	N, R <u>05</u> E	Status Injection Well
Elevation	1146	XGLKB			
<u>Hole</u>	Casing	Landed	Compant 9 Addition Data	Top of	If well is TA or P&A Describe
Size	<u>Size</u>	<u>Depth</u>	Cement & Additive Data	Cement	How:
"	8 5/8 '	113 '	Cmt w/115 sx	surf '	
	4 1/2 "	3048 '	114 sx w/ 30% Diacel "D". Cmt w/380 sx reg, between 4 1/2" & 8 5/8" csg	1800 '	
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	3 1/2 "	3015 '	Cmt w/200 sx Reg, 2% Gel. Squeeze leaks w/375 sx Reg cmt	1	
	"			-	
, n	11	'			
Formation	s Open To	Wellbore:	Burbank (Open Hole 3048' - 3090')		
********	*******	*****	**************	********	*********
Well Name	NBU 31-W	<u>25</u> Comp	any Name Phillips Petroleum Com Dat	e Drilled 3/29	9/1962 Depth 3118 '
Location	420 ' F N	L & 565	'F <u>W</u> L, <u>SW</u> /4, Sec. <u>14</u> , T <u>27</u>	N, R <u>05</u> E	Status Injection Well
Elevation	1169	ΧGL□KΒ			
<u>Hole</u> Size	Casing Size	<u>Landed</u> <u>Depth</u>	Cement & Additive Data	Top of Cement	If well is TA or P&A Describe How:
11	8 5/8 "	111 '	105 sx	surf '	
17	4 1/2 "	3080 '	190 sx w/ 30% Diacel "D"	1725 '	
11	11			1	
- "	,,	ī	sqz csg lk w/ 125 sx reg cmt. sqz csg lk from 344' to surf. Pmp 50 sx cmt to circ.	1	
н	7,	1	WOC. Pmp 25 sx reg cmt Circ hole 2/40		
	11		bbl gelled water. Pmp 150 sx cmt w/ 4%		
Formation	s Open To	 Wellbore	gel. WOC. Back on injection.	*	L
***********	open 10	vvelibole.	Burbank (Open Hole 3080' - 3118')		

*********	nj vveli	******	**********	******	*******
Well Name	NBU 31-W	27 Comp	pany Name Phillips Petroleum Com E	Date Drilled 4/3	3/1962 Depth 3081 '
Location .	420 F N	L & 715	FEL, SW /4, Sec. 14 , T 2	.7 N, R <u>05</u> E	Status P&A'd 10/7/1972
Elevation	1146	X]GL KB			
Hole Size	Casing Size	<u>Landed</u> <u>Depth</u>	Cement & Additive Data	Top of Cement	If well is TA or P&A Describe How:
"	8 5/8 "		115 sx	surf	Irreperable csg dmg @ 1023'. Filled hole w/
11	4 1/2 "	3040 '			hvy mud. Pmp 100 sx rdy mix cmt@ 1050'.
n	4 1/2	3040	80 sx w/ 30% DD 70 sx w/ 40% DE	,	WOC. Pmp 10 sx cmt @ 160'. WOC. Pmp 115 sx cmt down annulus and displaced w/ 3
71					bbls mud.
Karasasa		8			
U		3	VI. DAV. 5		•
Formation	s Open To	Wellbore:	None	******	******
Well Name				Date Drilled	Depth'
Location	' F	L &	'FL, /4, Sec , T _	N, RE	Status
Elevation		GLKB			
Hole	Casing	Landed	Company 0 Addition Date	Top of	If well is TA or P&A Describe
Size	<u>Size</u>	<u>Depth</u>	Cement & Additive Data	Cement	How:
<i>y</i>	10	'			J
"	n	- 1			<u>, , , , , , , , , , , , , , , , , , , </u>
"	"	- 1			┪ !
11	11	3			-
ñ		1			-
Corneties	o Onen Te l	0/-11			
Formation	s Open To \	velibore:		*	

well Name		Comp	pany Name	Date Drilled	Depth
Location	'F	L &	'FL, /4, Sec , T _	N, RE	Status
Elevation		GLKB			
<u>Hole</u>	Casing	Landed	Cement & Additive Data	Top of	If well is TA or P&A Describe
Size	<u>Size</u>	<u>Depth</u>	Gement & Additive Data	Cement	How:
"	- 1	1			,
***					*
"	"	1			1
"		ı	270		,
"	11	i			,
	n	1			•
Formation	s Open To	Wellbore:			

ILFIELD RESEARCH LABORATORIES

. REGISTERED ENGINEERS .

700 North Mission OKMULGEE, OKLAHOMA PHONE: 4444

Chanute, Kansas

September 2, 1961

536 N. HIGHLAND CHANUTE, KANSAS PHONE: HE 1-2650

Phillips Petroleum Company Production Department Bartlesville, Oklahoma

Gentlemen:

Enclosed herewith are the results of permeability and porosity tests run on the Rotary core taken from the North Burbank Unit, Well No. 31-W-23, Osage County, Oklahoma, and submitted to our laboratory on August 30, 1961.

This core was taken and shipped to our laboratory by a representative of the Phillips Petroleum Company.

Your business is greatly appreciated.

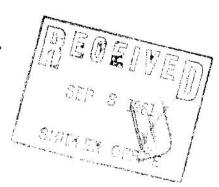
Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:rf

1 c. - S.I. Betzer







Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Phillips Petroleum	Co.	Lease	N.B.U.		Well No.	31-W-23
Location SW#						
Section 14 Twp 27N Rge. 5E	····	_ County_	Osage		State	<u>Oklahom</u> a
Name of Sand				-		Burbank
Top of Core					* 19	3038.0
Bottom of Core			U1 14 4			3086.0
Top of Sand				· ·		?
Bottom of Sand				-		?
Total Feet of Permeable Sand				g x. = .		27.8
Total Feet of Floodable Sand						-
Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	_	Cum. Ft.	ustavenene		
0 - 10 10 - 50 50 - 100 100 - 300 300 & above	11.0 9.6 1.0 4.0 2.2		11.0 20.6 21.6 25.6 27.8			
Average Permeability Millidarcys						80.0
Average Percent Porosity				: -		17.9
Average Percent Oil Saturation			::::::::::::::::::::::::::::::::::::::			
Average Percent Water Saturation				-		
Average Oil Content, Bbls./A. Ft				•		
Total Oil Content, Bbls./Acre				•		
Average Percent Oil Recovery by Laborato	ry Flooding Tes	s ts		•		
Average Oil Recovery by Laboratory Flood	ing Tests, Bbls.	/A. Ft		=		
Total Oil Recovery by Laboratory Flooding	Tests, Bbls./Ac	ere		-		
Total Calculated Oil Recovery, Bbls./Acre				- ₩		
Packer Setting, Feet				•8		
Viscosity, Centipoises @				•0		
A. P. I. Gravity, degrees @ 60 °F				•		
Elevation, Feet				-		

OILFIELD RESEARCH LABORATORIES

LOG

Depth Interval, Description
Feet

3038.0 - 3040.0 - Brown sandstone.

3040.0 - 3044.2 - Soft brown sandstone.

3044.4 - 3051.0 - Soft brown sandstone.

3051.0 - 3063.0 - Brown sandstone.

3063.0 - 3086.0 - Dark carbonaceous sandstone containing a vertical fracture.

Oilfield Research Loboratories RESULTS OF PERMEABILITY AND POROSITY TESTS TABLE 1 A

Company Phillips Petroleum Co. Lease N.B.U. Well No. 31-W-23

Sample	Depth,	Permeability	Feet	of Core	Permeability	Percent
No.	Feet	Millidarcys	Ft.	Cum. Ft.	Capacity Ft. x Md.	Porosity
123456789012345678901234567890	30341.55.55.55.55.55.55.55.55.55.55.55.55.55	5.1 216. 86. 260. 543. 260. 3260. 3260. 3260. 3260. 3260. 327. 66. 40. 143. 143. 143. 143. 143. 143. 143. 143	000002600000000000000000000000000000000	12345667898888888888888888888888888888888888	5.10 21.00 186.0	17.54.66 17.54.66 17.52.68 18.40.46 12.20 12.20 12.20 12.20 12.20 12.20 12.20 12.20 13.20 14.46 14.50 14.50 14.50 14.50 16.50

Oilfield Research Laboratories RESULTS OF PERMEABILITY AND POROSITY TESTS TABLE I A

Company	<u>Phillips</u>	Petroleum	Co.	Lease _	N.B.U.	Well	No.	31-W-	23
---------	-----------------	-----------	-----	---------	--------	------	-----	-------	----

Sample	Depth, Feet	Permeability	Feet o	of Core	Permeability	Percent
No.	Feet	Millidarcys	Ft.	Cum. Ft.	Capacity Ft. x Md.	Porosity
41 42 44 45 44 44 44	3078.5 3079.5 3080.5 3081.5 3082.5 3083.5 3084.5 3085.5	Imp. 0.25 Imp. Imp. 0.25 Imp. Imp. Imp. Imp.	1.0 1.0 1.0 1.0 1.0	40.8 41.8 42.8 43.8 44.8 45.8 45.8 47.8	0.00 0.25 0.00 0.00 0.25 0.00 0.00	12.5
					te .	

Oilfield Research Laboratories

SUMMARY OF PERMEABILITY & POROSITY TESTS

TABLE II A

Depth Interval, Feet of Core Feet Analyzed	Average Air Permeability, Millidarcys	Average Effective Permeability,		
		Millidarcys	Permeability Capacity Ft. x Md.	Average Percent Porosity
	ig.			
3038.0 - 3063.0 24.8	.06	ı	2237.40	18.7
3074.0 - 3083.0 3.0	0.31	ŧ	0.93	11.6
3038.0 - 3063.0 27.8	80.	ı	2238.33	17.9

93

3

SUSPENSE FILE

& SURVEYING

D RESEARCH LABORATORIES

- REGISTERED ENGINEERS -

700 NORTH MISSION OKMULGEE, OKLAHOMA PHONE: 4444

Chanute, Kansas

536 N. HIGHLAND CHANUTE, KANSAS PHONE: HE 1-2650

October 25, 1962

Phillips Petroleum Company Production Department Bartlesville, Oklahoma

Gentlemen:

Enclosed herewith are the results of permeability and porosity tests run on the Rotary core taken from the North Burbank Unit, Well No. 23W-23, Osage County, Oklahoma, and submitted to our laboratory on October 19, 1962.

This core was taken and shipped to our laboratory by a representative of the Phillips Petroleum Company.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Fred O. Stenger

FOS:rf

15 c. - Bartlesville, Okla.

1 c. - Shidler, Okla.

pen pest

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Phillips Petro	oleum Co.	Lease N.B.U.	Well No. 23W-23
Location NW #			
Section 14 Twp. 27N Rge.	5E	County Osage	State Oklahoma
Name of Sand			- Burbank
Top of Core			3039.0
Bottom of Core			3087.0
Top of Sand Good	(Received)		3039.1
Bottom of/Sand			3077.0
Total Feet of Permeable Sand	(Analyzed)		38.9
Total Feet of Floodable Sand			
Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Pt.	_
0 - 10 10 - 100 100 - 400 400 & above	8.4 22.3 4.0 4.2	8.4 30.7 4.7 38.9	
Average Permeability Millidarcys -			128.5
Average Percent Porosity			18.5
Average Percent Oil Saturation -			
Average Percent Water Saturation			
Average Oil Content, Bbls./A. Ft			
Total Oil Content, Bbls./Acre		/ = ' =	
Average Percent Oil Recovery by Labo	oratory Flooding Test	ts	
Average Oil Recovery by Laboratory F	looding Tests, Bbls./	A. Ft	2 E
Total Oil Recovery by Laboratory Floo	ding Tests, Bbls./Acr	e	
Total Calculated Oil Recovery, Bbls./A	cre		
Packer Setting, Feet			
Viscosity, Centipoises @			-
A. P. I. Gravity, degrees @ 60 'F -			
Elevation, Feet			

Company Fhillips Petroleum Co. Lease N.B.U. Well No. 23W-23

Depth Interval, Description Fest

3039.0 - 3039.1 - Sandy shale.

3039.1 - 3039.9 - Brown sandstone.

3039.9 - 3040.0 - Sandy shale.

3040.0 - 3040.6 - Brown shaly sandstone.

3040.6 - 3040.8 - Sandy shale.

3040.8 - 3047.2 - Brown sandstone.

3047.2 - 3047.3 - Sandy shale.

3047.3 - 3066.2 - Brown sandstone containing a vertical fracture.

3066.2 - 3066.8 - Loss.

3066.8 - 3077.0 - Brown sandstone.

3077.0 - 3087.0 - Dark carbonaceous sandstone containing a vertical fracture.

Oilfield Research Laboratories RESULTS OF PERMEABILITY AND POROSITY TESTS TABLE I A

Company Phillips Petroleum Co. Lease N.B.U. Well No. 23W-23

Sample	Depth	Permeability	Fee	of Core	Permeability	Percent
No.	Feet	Millidarcys	Ft,	Cum. Ft.	Capacity Ft. x Md.	Porosity
123456789012345678901234567890123456789012344	304123445678901234456789000000000000000000000000000000000000	53.57 15.600.1485.4.70.8.8.7 12.00.8.5.70.8.8.7 12.00.8.5.70.8.8.7 12.00.8.5.7 13.00.8.5.7 14.00.8.5.7 15.00.8.5.7 16.00.8.5.7 16.00.8.5.7 16.00.8.5.7 16.00.8.5 16.00	0.86200000000000000000000000000000000000	846666685555555555555555555555555555555	42.40 0.34 1872.00 140.00	96488814558520684347658148046710854742 200852237116377319077566640.165442.4456667363 222222222121111111111111111111111111

Oilfield Research Laboratories RESULTS OF PERMEABILITY AND POROSITY TESTS TABLE I A

Company	Phillips	Petroleum	Co.	Lease	N.B.U.	Well	No.	23W-23
O CHILDREN,								

Sample No.	Depth Feet	Permeability Millidarcys	Feet o	f Core	Permeability	Percent
No.	Feet	Millidarcys	Ft,	Cum. Ft.	Permeability Capacity Ft. x Md.	Porosity
45 46 47 48	3083.5 3084.5 3085.5 3086.5	Imp. Imp. Imp. Imp.	1.0 1.0 1.0	43.9 44.9 45.9 46.9	0.00 0.00 0.00 0.00	-
				•		
			al al			
				18 - 19 - 19 - 19 - 19 - 19 - 19 - 19 -	•	11 10

Oilfield Research Laboratories

SUMMARY OF PERMEABILITY & POROSITY TESTS

TABLE II A

Company. Phillips	Phillips Petroleum Co.	9869	N.B.U.	ŀ	23W-23
Depth Interval, Feet	Feet of Core Analyzed	Average Air Permeability, Millidarcys	Ψ.	Permeability Capacity Ft. x Md.	Well NoAverage Percent Porosity
3039.1 - 3056.0	16.5	379.5	ı	77.0197	23. 5
3056.0 - 3081.0	22.4	777		()	1 1
0000	- 1	•	r	390.54	14.8
3039.1 - 3081.0	38.9	128.5	ı	5006.98	18.5